

Low Fluorescence Nylon/Glass Composites for
Micro-Analytical Diagnostic Applications

ABSTRACT OF THE DISCLOSURE

5 An improved combination non-luminescent microporous
membrane and solid support for use in micro-analytical diagnostic applications is
disclosed. Specifically, composite microarray non-luminescent slides having a
microporous membrane effectively attached by covalent bonding through a
surface treatment to a substrate that prepares the substrate to sufficiently,
covalently bond to the non-luminescent microporous membrane formed by a
10 phase inversion process such that the combination produced thereby is useful in
microarray applications and wherein the porous non-luminescent nylon composite
microarray slides are covalently bonded to a solid base member, such as, for
example, a glass or Mylar microscope slide, such that the combination produced
thereby is useful in microarray applications. Apparatus and methods for
15 fabricating the non-luminescent composite microarray slides are also disclosed.